

Title (en)
SPRAY NOZZLE FOR UNDERGROUND ROOF SUPPORT

Title (de)
SPRÜHDÜSE FÜR UNTERIRDISCHEN DACHTRÄGER

Title (fr)
BUSE DE PULVÉRISATION POUR SOUTÈNEMENT DE TOIT SOUTERRAIN

Publication
EP 3203015 A2 20170809 (EN)

Application
EP 16002586 A 20161205

Priority
US 201562263251 P 20151204

Abstract (en)
A fluid spray for an underground roof support includes a first housing portion, a spray outlet, a second housing portion formed integrally with the first housing portion, and a service port. The first housing portion includes an elongated shaft having a first end, a second end, and a first fluid passage extending between the first end and the second end. The spray outlet is positioned adjacent the second end of the shaft. The second housing portion is positioned adjacent the first end of the shaft. The second housing portion includes at least one port and a second fluid passage between the at least one port and the first fluid passage. The service port is aligned with the first fluid passage, and the service port is selectively opened to provide access to the first fluid passage from the first end of the first housing portion.

IPC 8 full level
E21D 23/00 (2006.01); **E21F 5/02** (2006.01)

CPC (source: EP RU US)
B05B 1/26 (2013.01 - EP US); **E21C 35/22** (2013.01 - RU); **E21D 23/04** (2013.01 - RU); **E21D 23/06** (2013.01 - EP US);
E21F 5/02 (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 10024157 B2 20180717; US 2017159436 A1 20170608; AU 2016259352 A1 20170622; AU 2016259352 B2 20220630;
AU 2022241519 A1 20221027; EP 3203015 A2 20170809; EP 3203015 A3 20170920; EP 3203015 B1 20191016; PL 3203015 T3 20200601;
RU 2016147375 A 20180605; RU 2016147375 A3 20200323; RU 2731864 C2 20200908; US 10378354 B2 20190813;
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US 201615368116 A 20161202; AU 2016259352 A 20161116; AU 2022241519 A 20220928; EP 16002586 A 20161205;
PL 16002586 T 20161205; RU 2016147375 A 20161202; US 201816005970 A 20180612